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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,367	04/01/2004	Trung V. Le	10301US02	8235
759	90 10/26/2005		EXAM	INER
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St. Paul, MN 55164-0898			ART UNIT	PAPER NUMBER
			2841	-

DATE MAILED: 10/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	<u> </u>					
•		Application No.	Applicant(s)			
Office Action Commence		10/815,367	LE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Phuong T. Vu	2841			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 10 November 2004.						
		s action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	•				
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	e of References Cited (PTO-892)	4) Interview Summary (
3) 🔯 Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 28 June 2004.	te atent Application (PTO-152)				

Art Unit: 2841

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-2, 6, 8-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Liu et al. (US 6,751,694B2). Regarding claim 1, the reference discloses an apparatus comprising a housing (comprising 20, 30) defining a slot 31 to receive one of at least four different types of removable memory cards, wherein the slot includes a central region having a width to receive a memory card of a first type, first outer regions that extend the width of the central region to a second width receive a memory card selected from a second type of memory card and a third type of memory card, and second outer regions that extend the width of the central region to a third width to receive a memory card of a fourth type (see figures); and inherently has a plurality of electrically conductive contact areas to provide electrical contact with the four different types of memory cards.

Regarding claim 2, at least a portion of each of the contact areas is disposed within the central region of the slot.

Art Unit: 2841

Regarding claim 6, an insertion stop (transverse back wall of 30) is within the central region of the slot to limit an insertion depth of a memory card of a predetermined width or greater.

Regarding claim 8, it appears that the central region of the slot has a height of approximately 2.8 mm and width of at least approximately 24 mm to allow insertion of the memory cards.

Regarding claim 9, it appears that the width of the central region must be at least approximately 21.5 mm, wherein the first outer regions extend the width of the central region to at least approximately 24 mm, and wherein the second outer regions extend the width of the central region to at least approximately 37 mm for the memory cards to be inserted.

Regarding claim 10, the apparatus inherently further comprises an electrically conductive interface for coupling to a memory card reader for the apparatus to function as intended.

Regarding claim 11, the apparatus must further comprise an electrically conductive interface for coupling the apparatus to a connector for one of a Personal Computer Memory Card International Association (PCMCIA) bus, a Universal Serial Bus (USB) interface, a serial interface, a parallel interface, and a Small Computer System Interface (SCSI) interface for the apparatus to function as intended.

Regarding claim 12, the apparatus must further comprise circuitry for converting signals received from the contact areas for the apparatus to function as intended.

Regarding claim 13, wherein the circuitry converts the signals to conform to one

of a Personal Computer Memory Card International Association (PCMCIA) bus, a Universal Serial Bus (USB), a serial interface, a parallel interface, and a small computer system interface (SCSI) for the apparatus to function as intended.

Regarding claim 14, the plurality of contact areas comprises a first contact area for electrically coupling to a Smart Media memory card, a second contact area for electrically coupling to a Memory Stick memory card, and a third contact are for electrically coupling to a Secure Digital memory card or a MultiMedia memory card.

Regarding claim 15, the housing (comprising 20, 30) defines the width of the central region to receive a Memory Stick removable memory card, wherein the first outer regions extend the width of the central region to receive at least one of a MultiMedia removable memory card and a Secure Digital removable memory card and wherein the second outer regions extend the width of the central region to receive a Smart Media removable memory card.

Regarding claim 16, wherein the apparatus comprises an adapter or a memory card reader.

Regarding claim 17, the reference discloses an apparatus (comprising 20, 30) comprising a plurality of electrically conductive contact areas disposed within a cavity 31 to provide electrical contact with at least four different types of removable memory cards, wherein the cavity includes a central region having a width to receive a Memory Stick removable memory card, first outer regions that extend the width of the central region to a second width to receive a MultiMedia removable memory card or a Secure

Art Unit: 2841

Digital removable memory card, and second outer regions that extend the width of the central region to a third width to receive a Smart Media removable memory card.

Regarding claim 18, the reference discloses a system comprising an adapter (comprising 20, 30) having a slot 31 to receive one of at least four different types of removable memory cards, wherein the slot includes a central region having a width to receive a memory card of a first type, first outer regions that increase the width of the central region to a second width to receive a memory card selected from a second type of memory card or a third type of memory card, and second outer regions that increase the width of the central region to a third width to receive a memory card of a fourth type, and a computing device 10 having a port to receive the adapter.

Regarding claim 19, the port of the computing device comprises one of a PCMCIA interface, a USB interface, a serial interface, a parallel interface, and a SCSI interface.

Regarding claim 20, the reference discloses an apparatus comprising a housing (comprising 20, 30) defining a slot 31 with a plurality of differently sized regions to receive at least four different types of memory cards, wherein the plurality of differently sized regions of the slot includes a first region having a first width to receive a memory card of the first type, a second region having a second width greater than the first width, the second width being sized to receive a memory card selected from a second type of memory card and a third type of memory card and a third region having a third width greater than the first width and greater than the second width, the third width being

Application/Control Number: 10/815,367

Art Unit: 2841

sized to receive a memory card of a fourth type, a plurality of electrically conductive contact areas to provide electrical contact with the four different types of memory cards.

Page 6

3. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Harris et al. (US 6,684,283B1). Regarding claim 1, the reference discloses an adapter with a slot for receiving four types of memory cards. Although no details of the physical structure of the adapter are provided, such adapter necessarily and inherently comprises a housing defining a slot to receive one of at least four different types of removable memory cards, wherein the slot includes a central region having a width to receive a memory card of a first type, first outer regions that extend the width of the central region to a second width receive a memory card selected from a second type of memory card and a third type of memory card, and second outer regions that extend the width of the central region to a third width to receive a memory card of a fourth type and inherently has a plurality of electrically conductive contact areas to provide electrical contact with the four different types of memory cards for the device to function as intended.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the dif98ferences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3-5, 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. (US 6,751,694B2) in view of Harase (US 5,155,663). Regarding claim 3, the Liu reference teaches does not teach providing a bias mechanism coupled to the

Application/Control Number: 10/815,367

Art Unit: 2841

housing to bias a memory card toward the contact areas, however, Harase discloses a bias mechanism (comprising 9, 10, 34, 35, 15, 16, 32, 33) coupled to the housing for biasing an inserted memory card toward the contact areas for easier insertion and withdrawal of the memory card. The Liu reference is relied upon for solely for this teaching. It would have been obvious to those skilled in the art at the time the invention was made to provide the biasing means as taught by Harase to reliably secure the memory card and ensure good electrical contact between the memory card and the contact areas of the apparatus and for easier insertion and withdrawal of the memory card from the housing.

Regarding claim 4, the bias mechanism is coupled to the housing within the central region of the slot to bias memory cards toward a first side of the central region of the slot.

Regarding claim 5, it appears that the bias mechanism would bias the memory card to move the memory card a distance of at least approximately mm from a second side of the central region of the slot. Alternatively, it has been decided that where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Regarding claim 8, one skilled in the art would recognize that the central region of the slot should have a height of approximately 2.8 mm and width of at least approximately 24 mm to allow insertion of the memory cards. Alternatively, it has been decided that where the general conditions of a claim are disclosed in the prior art, it is

Application/Control Number: 10/815,367

Art Unit: 2841

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phuong T. Vu whose telephone number is (571) 272-

2111. The examiner can normally be reached on Mon. & Tues., 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David S. Martin can be reached on (571) 272-2107. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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Phuong T. Vu Patent Examiner Group 2841

Phuong T. Vu Putent Examiner Page 9